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(54) CURABLE COMPOSITION FOR SOLID ELECTROLYTE AND SOLID POLYELECTROLYTE

(57) Abstract:

PURPOSE: To obtain the subject composition, containing an alkenyl group- containing compound, a compound having plural hydrosilyl groups, a hydrosilylating catalyst and an alkali metallic salt, capable of providing cured products excellent in stability, uniformity, flexibility and adhesion and useful as cells, batteries, etc.

CONSTITUTION: The objective curable composition for solid electrolytes is obtained by blending (A) a compound (e.g. 1,9-decadiene) having at least one alkenyl group in the molecule with (B) a compound (e.g. cyclic polyhydrogensiloxane) having at least two hydrosilyl groups in the molecule, (C) a hydrosilylating catalyst (e.g. a solution of chloroplatinic acid catalyst in ethanol/1,2-dimethoxyethane) and (D) an alkali metallic salt prepared by combination of alkali metallic cations such as Li⁺, Na⁺ or K⁺ with anions such as F⁻, Cl⁻, I⁻, ClO₄⁻, BF₄⁻, PF₆⁻, SbF₆⁻, HCOO⁻, RCOO⁻ (R is alkyl) or CF₃SO₃⁻. The resultant composition is excellent in uniformity and flexibility and capable of providing a thin type.

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